

**Meeting Description:** Michigan Geographic Framework Users Meeting

**Date:** April 1, 2004

**Time:** 10:00 a.m. **Location:** Michigan Center for Geographic Information, George W. Romney Building, 10th Floor, Conference Room

I. Approval of Meeting Minutes

II. Geographic Framework Program

A. Act 51 Mapping

Everett Root, Center for Geographic Information (CGI), reported CGI is getting the auto-run CD of township maps out to the counties. Feedback is positive. The counties like digital exchange.

Rob Surber, CGI, commented that the changes are from last year's cycle into Version 4. These changes will come back to CGI in July/August.

Everett Root, CGI, added that the roads on the maps now are roads that were built in 2002 or during the first half of 2003 going into framework during 2003. So the project is a year behind so to speak. The roads go into framework as soon as CGI gets them.

Rob Surber, CGI, added that there are actually other new roads as well but they have not come through this process.

Everett Root, CGI, commented that this process doesn't look at address ranges.

B. Digital Ortho Update

Sherm Hollander, Michigan Department of Natural Resources (MDNR), reported MDNR has been processing images and have put on web images to fill in Clinton, Monroe, Lenawee, Washtenaw, Livingston, Shiawassee, and Genesee Counties. They are currently working on Branch and St. Joseph Counties and are in the process of acquiring digital ortho quads (DOQ) imagery for Huron Manistee National Forest in the northern part of the Lower Peninsula.

Rob Surber, CGI, reported for SEMCOG about their 2005 regional flight for the 7 SEMCOG counties. SEMCOG has received several letters from vendors with proposals due today. CGI is on the review committee. The state is participating in this program. Additional activity is being discussed with Kent County and the possibility of partnering with the state for future imagery acquisition. CGI has been in contact with the United States Geological Survey (USGS) and Kent County to set up a meeting to further the discussion for the potential for state, county, and local contributions. The federal NGA is looking to add additional high priority imagery acquisition areas to their list. For Homeland Security reasons they have been acquiring imagery in the SEMCOG area (Wayne/Oakland/Macomb). They will get another acquisition in the Monroe area and Lansing and Flint. Lansing has been working with the Army Corp of Engineers on a program to get imagery for this area. If know of imagery acquisition in the planning stage or under way in the Flint area let CGI know. The federal government potentially has money to help do this work and this is a benefit.

C. Framework Network Pilot Partnerships Update

- Qualified Voter File (QVF) Street Index to the Map Project

Everett Root, CGI, reported the QVF project continues with behind the scenes technical issues of relating framework to the street index. Continue to talk to local communities about partnering with the geographic framework network. CGI continues to meet with United States Postal Service's (USPS) district offices for Michigan – Royal Oak, Detroit, West Michigan, and the district from Wisconsin call in. Livingston County is unique because all 3 USPS districts come into their county. The county was willing to compare their street names to ZIP+4 and report what is official back to USPS. Livingston County representatives had 1 township worth of official names that they handed over to USPS and USPS said that we will make change into

ZIP+4. That has potential for others. Eventually may be able to get a web interface where you will be able to run comparisons and do reconciliation and USPS will do the changes. Most of the changes were spelling, spacing, and suffix errors. This was an education for the county as well as to what kind of street names to use. There are some historical names to work out. The USPS is very interested in cleaning up 5-digit polygons for zip codes. They don't like the overlap that appears when you try to make polygons out of zip codes. They know that different zip codes are coming on to the same street segments. They don't have the geographic component to review it and CGI will probably provide that. The three regional people are the folks to clean up the zip code polygons.

Rob Surber, CGI, commented that the Census Bureau is a user and create a derivative product from the 5-digit zip code polygon that is an approximation.

Mike Hass, MDCH, asked where is disconnect between what the USPS has and is available to public entities and what national data the public can purchase for \$500.

Rob Surber, CGI, responded that it is a derived product.

#### D. National Hydro Dataset (NHD) Project Update

Rob Surber, CGI, reported they are getting close to getting the final agreement signed. Still working out a timeline. CGI will be working with Oakland County and their work with the watersheds in southeast Michigan (Wayne/Oakland/Macomb).

#### E. Rail Update

Everett Root, CGI, reported the Michigan Rail Association in partnership with Michigan Department of Transportation (MDOT) rail staff will send a map to rail companies of areas they own and zoomed in appropriately to the end of the lines and ask them to review and comment by the end of May. CGI can see the active rail but does it end where shown. Therefore CGI is asking for help in identification. It is a paper process right now. The goal is to have an ongoing online communication tool.

#### F. School District Update

Rob Surber, CGI, reported the schools are receiving instructions on how to review and update school district boundaries. Primarily for areas where there is not plat or parcel level boundary information submitted by local counties. Some counties sent good layers that will be incorporated in. This will be sent to the Census Bureau. The primary purpose is not only to integrate into framework but to send to the Census Bureau to help tabulate population data that will be used to run some of their programs. There is a lot of incentive for the school districts to review these but CGI wants to have it in the loop so that the boundary layer is actually available.

Mike Hass, Michigan Department of Community Health (MDCH), stated that there is an interest in the state having this product.

Rob demonstrated the program.

### III. Michigan Department of Natural Resources (MDNR) Projects and Activities

Sherm Hollander, MDNR, nothing to report.

Rob Surber, CGI, reported there are a couple of project CGI and MDNR are involved in. Michigan Recreation Boating Information System II (MrBIS) is well underway. There are a number of upgrades and it is due out May 15 – the start of boating season. CGI is digitizing and creating areas on the lakes that have boating restrictions and legal issues (no wake and use restrictions). Anything through MDNR Law Division that is being tracked will be in this. There are different restrictions and legal issues that are tracked for the same area. Every one of those will be separate in the database. Right now CGI is taking the data from the text fields with the legal descriptions and putting it in GIS form that will be useable for the application. MDNR will look at enhancing this over the years. MDNR Parks and Recreation and Law Division will decide what they want to incorporate each year. CGI is also developing a GIS weather layer for

the state. Weather data from NOAA is streamed in variety of ways – one of which is it comes in 5 kilometer grids. From the raw data it comes in two portions for Michigan. There is an overlap between the two, which CGI has seamed together and dropped out slivers. CGI will create as kilometer weather grid of 12 attributes. Depending on what MDNR wants, CGI is going to have a way to access weather based on inputs from the application. MDNR will decide how they want this displayed. At this point, you have a point location and get the weather that you want. CGI is talking to MDNR about weather maps that would be a little different than weather.com. These will be detailed work. The goal is to have it as a service and different applications that can be tapped in to as a layer or as a service. The layer is together and CGI is developing the identifications for each of the grids. The delay is every 3 hours. The data is created and through the command line you can go get it. The grid will be a layer but considering contouring. It does front and back forecasting. CGI has also been working with the MDNR Forest Mineral and Fire Management (FMFM). They have issues related to trespass on state lands. CGI is working to develop an application to map where trespasses occur and put that back into the system that is used for number of program areas. In the past it was a paper system. One of the big problem areas is the rails-to-trails, schematics, and where trespasses occur. MDNR is talking about moving it to other groups that have trespass issues.

#### IV. Michigan Department of Transportation (MDOT) Projects and Activities

Joyce Newell, MDOT, reported that they have come up with a solution for the scanned images of the right-of-way maps. It may have been a software problem. Gary Kropsey asked MDOT to come to a meeting Department of Agriculture to discuss inter-county drains. MDOT will get an example of an inter-county drain that corresponds to county that MDOT has already done work in. MDOT is interested if they can bring that into GIS file that is framework compatible. This is a pilot project. When they determine the cost, they might decide how to proceed. MDOT also had contact from MDNR about state park roads. MDNR wants to collect pavement information on state park roads. Local Technical Assistance Program (LTAP) at RoadSoft has offered to do the work for MDNR. MDNR is under the impression that the state park roads are already in framework. They are not. MDNR is hoping that MDOT's contract with LTAP is such that MDNR can pass money to MDOT and MDOT can pay for the work. That probably is not feasible. MDNR wants to get it into framework by September and then collect data by the end of November. MDNR's fast-track is faster than MDOT can handle. They could use Maptitude and collect Pavement Surface Evaluation and Rating (PASER) condition information. They need the line work in a GIS format to tie it in. However they probably do not have a referencing system. Not sure if MDNR can meet the deadline for this summer.

#### V. Michigan Department of Environmental Quality (MDEQ) Projects and Activities

Rob Surber, CGI, reported all IMS internet service applications have migrated to CGI servers. MDEQ was having uptime issues and CGI assumed the responsibility and that should help the uptime. CGI is working with the census bureau data for the Storm Water Program. MDEQ wants to define urbanized areas. CGI is working with their scientist to come up with a model that will redefine the boundaries.

Joyce Newell, MDOT, commented that Federal Aid Urban Boundary (FAUB) is supposed to define urbanized areas also.

Rob Surber, CGI, stated that MDOT's specifications are different than MDEQ's definitions. The Environmental Protection Agency (EPA) comes out with definitions and then allow the states expand on that. Michigan has their own additional flavors of what they need.

Gordon Rector, United State Census Bureau, commented the census defines it strictly based on population density. The state goes through and smooths the boundaries out a little bit.

Joyce Newell, MDOT, added this is based on urbanizing tendencies in the future. The local regions and metropolitan planning organizations (MPO) add their input. Because they have a better handle on what is developing.

Rob Surber, CGI, commented that in this definition, they focus on a jurisdiction of 10,000 outside the urbanized area or 10,000 at least that also has a population density of greater than 1,000. There may be an additional level of urbanizing areas for MDEQ that will result from this that will drive some of their programs.

#### VI. Michigan State Police (MSP) Projects and Activities

Eric Nischan, MSP, reported there is officially a Michigan Homeland Security GIS Advisory Committee and their first meeting will be April 13. Eric Swanson, CGI, will chair this committee. The Michigan Homeland Security Advisory Committee is an umbrella committee with sub-committees. The main agenda is coordination of data between state, local, and federal agencies involved in GIS, coordinating standards, data collections, reducing redundancy. There is a target of September to develop a plan and strategy for Michigan. There are representatives from all levels of government represented.

Rob Surber, CGI, added that the first meeting will kick off sub-groups and number of tasks. Captain Ort is the sponsor of the Homeland Security. There have been needs expressed and this a response to that. Other states are doing different flavors of this.

Ron Damuth, MSI, added that he was contacted by 2 counties' sheriffs in reference to 9/11 stuff that is cell phone locations are supposed to be in place by the end of the year in relation to Homeland Security. All to be identified when they dial 9-1-1.

Eric Nischan, MSP, stated every county has local emergency management coordinators in addition to the state programs. The idea is that counties are talking within their individual counties and regions and bringing that information to the table. Within the Homeland Security Advisory Committee structure different sub-committees do talk to each other and report back so they can then coordinate. There has been no GIS component before. The federal government is using and pushing GIS for Homeland Security. The committee will develop data standards and a strategy for data collections to avoid duplication.

#### VII. Michigan Department of Community Health (MDCH) Projects and Activities

Mike Hass, MDCH, reported there is a internal project initiative through the Office of Drug Control Policy. It is preliminary. It shows an example of the web mapping applications that CGI is developing. The web mapping application is part of the disease surveillance system which is basically a reporting system that local health departments do to the state. It has web mapping component.

#### VIII. Michigan State Industries (MSI) Projects and Activities

Ron Damuth, MSI, reported MSI has got over 100 CDs, 18,000 TIFs for the As Built Project from MDOT. MSI is ready to do the next phase of the project. They are working on the glitch with ESRI on Right-of-Way Project. MSI has a request to quote for digitizing and attributing plots for 80,000 Sub-Division TIFs. Did do an estimate and sent a quote and samples to Dave Forstat, CGI. MSI completed MDNR georeferencing, digitizing, and attributing data for 60 lakes before the MDNR ran out of funds. Waiting for more funds to continue with 2,700 lakes MDNR wants MSI to complete. MSI has completed digitizing and attributing drain maps for Eaton and Saginaw Counties.

Rob Surber, CGI, added that the Sub-Division Project is sponsored by the MDNR. It is to look at all the sub-divisions that come in through the Sub-Division Control Act. This could be a potentially useful data layer. There is interest in making a layer available that is georeferenced

to be used by MDOT and MDNR. The goal now is to get sponsorship and support. Part of it is related to MDNR boundary review. There is a lot of interest at the parcel level, but getting that information into usable form that is accessible is a challenge.

Valdis Kalnins, Allegan County GIS, added that Allegan County is parcel mapping. They are scanning and georeferencing the plot already.

Rob Surber, CGI, stated that they may not have to do portions of the state if it is already done. MSI is not rescanning – they are georectifying.

Ron Damuth, MSI, commented that some time it is easier to get paper rather than digital into the prison. To do the quote to start with, they did scan. It has not all been set up 100%. Some of it is in digital format and some of it had to be scanned.

Rosemary Anger, Barry County, added that half of their plats are scanned in and the rest are COGO'd in.

Gary Bilow, Woolpert, commented the Maynard Dyers' group has every sub-division plat in the state. They should be available – believe they have micro-station.

Rob Surber, CGI, stated that the big job is georectifying.

Rosemary Anger, Barry County, added that the sub-divisions that are the range between 1840 and 1950 before they started surveying them, Barry County needs to georectify to put them in. There is some stuff that you can scan and georectify until your hearts content and will never get them to line up with anything in the real world.

Rob Surber, CGI, commented that it is worth discussing off line since nothing is moving yet – it is more of a concept.

Valdis Kalnins, Allegan County GIS, stated that he suspects that a lot of counties have or are scanning them in order to do their internal business.

Everett Root, CGI, asked if they are talking about historical or new ones. Do the developers give you digital yet?

Rosemary Anger, Barry County, stated that she codes all the new ones. The developers don't give digital files yet.

## IX. CGI Projects and Activities

Rob Surber, CGI, reported they have installed a new internet map servers and SQL database servers. CGI is doing the final configurations. All applications will come off that. There will be a complete development area and it will rotate some of the things that are in production now and move them into the development environment and will be able to roll things in as they are ready and not shut down current productions. One of the goals is to deliver faster response times on some applications. Will be testing with Map Michigan suite of products on performance. In addition to hardware, they are also looking at generalization options for various scales of the map. There is a contest among staff. There are three teams. They are developing raster views of the street network at various scales and still use labeling so that labels are not cut off at the seams of the view on the screen. Another group is generalizing line work. The final group is looking at the geography concept in ESRI software. Ultimately the goal is to help make response times a little faster.

## X. MSU Remote Sensing and GIS Research and Outreach Services Projects and Activities

Bill Enslin, MSU, passed around copies of a new publication. It is put out by the Michigan Agricultural Experiment Station. The topics are on any global change activities that are occurring with units at MSU and some of the support systems that have been built. These are mainly organizations that are in the Manley Miles Building.

Sherm Hollander, MDNR, asked if anything is being done by the Land Use Update through the Kellogg grant.

Bill Enslin, MSU, responded there are 40 townships done and all of Kalamazoo has been done. Most of the work has been completed. This week they have been getting some results. All the Kellogg ones are distributable on the Map Image Viewer. There are other townships that were done under the previous program that was a contribution by township and units of government. Still trying to determine which can be distributed by public domain.

#### XI. County / Local Projects and Activities

Valdis Kalnins, Allegan County GIS, reported they should be getting their National Aeronautics and Space Administration (NASA) data soon to look at septic failures. They are also working with county sheriff to do crime mapping to help with meth abatement – the use of methamphetamine. A large portion of that product will be to essentially build a point address file for the county.

Rob Surber, CGI, stated that the NASA imagery came from a grant. That is still open to groups that are interested in solving local issues. It closes April 30.

Rosemary Anger, Barry County, reported they have a digital ortho flight over flight for 3 counties scheduled to happen the first clear day. They are getting a large format scanner. One of their first projects will be to scan and georectify their 1974 and 1961 Farm Service Agency (FSA) flights that are sitting in a filing cabinet in the drain commissioners office. They have also started preliminary research into 2004 Land Use Update. Their Conservation District is working toward a Natural Features Inventory and they want to see a Land Use Update. The master land use plan people also want a Land Use Update, which unfortunately will be completed on the heels of the master plan rather than in preparation for it. The scanner was purchased by the Registrar of Deeds from the automation fund. The GIS office will use it to scan plats and the large condominiums, in addition to photos and archival records – like a 1934 blue print land use layer.

Trevor Floyd, St. Clair County, reported that they are moving forward with Illicit Discharge Elimination Program GPSing all those points with the Survey Grade Unit. Somebody actually said they didn't have an illicit discharge. The crew went out with the GPS unit and photo and figured out where it was and dug it up. The problem with database is that the structure was not set up right. One consultant heading up the project in two departments and each department had different data dictionaries. They would swap the data dictionary depending what watershed they were in. So they went through and created one seamless data dictionary for the two departments for all watersheds. Still toying with IMS and SDE. The funds through the Army Corp of Engineers have dried up. Will put out a parcel request for purchase (RFP) shortly. The effort with the Corps tower network is coming along. They will have 5 towers within St. Clair County. With the installation of IMS and SDE, Information Technology thought they could centralized GIS and are now going through the political hurdles. CGI did presentation yesterday to about 30 people.

Rob Surber, CGI, reported for Livingston County who couldn't attend but sent a report. They have 3 out of 16 townships left for the parcel mapping work. They are working on GPS applications for the Drain Commission's office and the Sheriff's Department: K-9 Unit in Dive Team. They are deploying a countywide intranet IMS application this month. They are working with Eastern Michigan University's Institute for Geospatial Research and Education on developing tools for mapping drain districts in ArcGIS 8.3. Their partnerships with County GIS (E9-1-1 Road Centerlines), County Clerks (QVF) and USPS (ZIP+4) to clean up road names and address range database is underway - preliminary meetings have been successful. Reminder that

there is a FREE ESRI Utilities Workshop:

[http://gis.esri.com/events/pdf/MINN\\_Manage\\_Util\\_04.pdf](http://gis.esri.com/events/pdf/MINN_Manage_Util_04.pdf)

Everett Root, CGI, added that there is a link on the CGI's web site under the What's New section.

Rob Surber, CGI, commented that the IMAGIN conference is May 3-5, 2004. Early registration ends April 16.

## XII. Regional Projects and Activities

Rob Surber, CGI, reported for SEMCOG. They had received 14 letters of intent from vendors that are interested in doing the 2005 regional flight. The SEMCOG Imagery Workshop was attended by 70+ people and received good reviews from the surveys. The next SEMCOG Regional GIS meeting will be June 10. The regions will be getting geared up for road rating data collection with the Asset Management Council activities coming up soon.

## XIII. Federal Projects and Activities

Gordon Rector, Census Bureau, reported the 2003 Version of TIGER line files were released. There were several counties throughout the country where this represents a repositioned TIGER. None in Michigan was done because the cutoff for benchmarking was last October and Michigan files had not gone through quality/control yet. Next year's release of 2004 should include a great majority of Michigan counties, which is using framework to reposition TIGER. Has looked at live TIGER and compared Michigan and other states and there is a considerable amount of difference and how the line work looks. Gordon has made screen shots that he put in a presentation that he will use at IMAGIN. The Census Bureau web site has information at TIGER line. Bob LaMacchia, Census Bureau, presented at National States Geographic Information Council (NSGIC) and mentioned that Michigan is leading the way in TIGER modernization and the fact that they could use framework for repositioning. They put out a national map that showed counties throughout the country that have gone through repositioning and the Michigan map is filling in nice.

## XIV. Other Issues

### XIV. Next Meeting Date

May 6, 2004, 10 a.m. until 12 p.m., Michigan Center for Geographic Information, George W. Romney Building, 111 S. Capitol, 10<sup>th</sup> Floor, Lansing, MI 48933